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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,532	07/07/2003	David H. McFadden	54330/322597	9062
JOHN S. PRAT	7590 03/26/201 T, ESQ	EXAMINER		
KILPATRICK STOCKTON, LLP 1100 PEACHTREE STREET			SUERETH, SARAH ELIZABETH	
SUITE 2800			ART UNIT	PAPER NUMBER
ATLANTA, GA 30309			3749	
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			03/26/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/614,532	MCFADDEN, DAVID H.				
Office Action Summary	Examiner	Art Unit				
	Sarah Suereth	3749				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
	/ IO OFT TO EVEIDE A MONTH!	0) OD THIDTY (00) DAYO				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period variety or period for reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>11 Fe</u>	ebruarv 2010.					
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>117-136</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>117-136</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct		•				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	or the certified copies not receive	u.				
Attachment/c)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/11/10.	5) Notice of Informal P 6) Other:	ателт Аррисатіоп				

Art Unit: 3749

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/11/10 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims are rejected under 35 U.S.C. 103(a) as obvious over U.S. Patent No.
- **4,409,453 to Smith** ("Smith") in view of **U.S. Patent No. 4,737,373 Forney** ("Forney").

Smith discloses in the specification and figures 1-18 an invention in the same field of endeavor as applicant's invention and as described in applicant's claims (note the figures in Smith are disclosed with roman numerals but have been reference below using corresponding numbers 1-18).

In particular, in regard to at least claim 117, Smith shows a system and method of speed cooking a food product with gas comprising the steps of: providing a housing (1) with a bottom (8'), top(2'), left and right sides (4' and 6') defining an oven cavity (79) including a cooking rack (T) to support food (P);

Smith also discloses a left gas transfer system (Figure 2, left half of element 82 with associated nozzles 90) and right gas transfer system (Figure 2, right half of element 82 with associated nozzles 90); however, Smith shows the nozzles mounted in two straight horizontal lines, to impinge the food vertically, instead of from the oven sides.

Forney discloses a convection oven having nozzles angled to impinge the food from the sides, top and bottom in order to evenly cook all the sides of a food product, instead of only the top and bottom (col. 3, lines 19-25).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Smith nozzle arrangement to angle the nozzle plates, in order to surround the food product, and to evenly cook all sides of the food (col. 3, lines 19-25).

Regarding the limitation of "turbulently colliding the downwardly converging gas", the examiner considers that the nozzle plates of Smith are angled shown in Figure 2 as colliding gas streams on a food product (P).

4. Regarding claims 118 and 132, Smith shows the exit vent opening (22) located on the sidewall of the oven chamber. However, Applicant has not demonstrated criticality for placing the vent on the top of the oven. The courts have held that

rearrangement of parts does not distinguish over the prior art in cases where the operation of the device remains the same (In re Japikse, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950) MPEP 2144.04). In this case, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Smith apparatus to include venting at the top of the oven as a matter of obvious design choice, to place the vent in any convenient location.

5. Regarding claims 119 and 131, Forney shows the nozzle arranged so that none are completely vertical (see Figure 4).

In regard to at least claim 120, at least Fig. 8 of Smith suggests multiple impingement points of the air and food product causing "simultaneously colliding the gas at multiple locations about the selected surfaces of the food product" as recited (see at least col. 10, lines 45-56).

In regard to at least claim 121, see at least Figs. 2 and 8 and note that air is provided to the oven cavity via conduits (chambers above plates 82 or 122) and exhausted from the oven cavity (note arrows in each Fig showing air passed from the oven cavity).

In regard to at least claims 122,124,125 flow means (30) for controlling the air flow is described as a "variable speed motor" (see col. 6, lines 4-9) and the velocity of the jets (81) may be optimized (see col. 9, lines 9-15), which is regarded as the recited "adjustably damping", for controlling the heating of the food to provide "very rapid heat transfer" (col. 10, lines 47-48). Regarding claims 129 and 130, controlling the speed of

Art Unit: 3749

the air flow impinging on the food obviously controls the rate of cooking the food product. Therefore, the flow means (30) is regarded as the claimed "control system".

In regard to at least claim 123, as shown in Fig. 6, multiple lower tubes (90) are arranged below a food product (112). These tubes direct jets of air (81) to strike the lower surface of the food product (112). The jets of air from adjacent tubes are considered to collide in close proximity to a surface of the food product as recited. These gas directing means are located both below the food product and above the bottom of the oven cavity as recited (see Figure 2).

In regard to at least claims 126,127,128, jet (81) velocity is in a range between 500 and 7,000 feet per minute (see col. 9, lines 5-6) meeting applicant's recited ranges. In regard to at least claim 96, see heating elements (50).

6. Claims 133-136 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 4,409,453 to Smith ("Smith") in view of U.S. Patent No. 4,737,373

Forney ("Forney"), further in view of U.S. Patent No. 5,166,487 to Hurley et al. ("Hurley").

Smith in view of Forney, as discussed above, discloses substantially all the limitations of claims 110-116 with the possible exception of directing microwave energy from the opposing side of the cooking chamber. Smith shows a microwave energy

Art Unit: 3749

generator (58) including a microwave waveguide plate (76). However, Smith appears to only suggest the use of a single microwave energy generator instead of the dual generators claimed by applicant.

- 7. Regarding claim 134, Smith shows the exit vent opening (22) located on the sidewall of the oven chamber. However, Applicant has not demonstrated criticality for placing the vent on the top of the oven. The courts have held that rearrangement of parts does not distinguish over the prior art in cases where the operation of the device remains the same (In re Japikse, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950) MPEP 2144.04). In this case, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Smith apparatus to include venting at the top of the oven as a matter of obvious design choice, to place the vent in any convenient location.
- 8. In regard to at least claim 135, as shown in Fig. 6, multiple lower tubes (90) are arranged below a food product (112). These tubes direct jets of air (81) to strike the lower surface of the food product (112). The jets of air from adjacent tubes are considered to collide in close proximity to a surface of the food product as recited. These gas directing means are located both below the food product and above the bottom of the oven cavity as recited (see Figure 2).
- 9. Regarding claim 136, Forney shows the nozzle arranged so that none are completely vertical (see Figure 4).

Hurley teaches a cooking method in the same field of endeavor as both applicant's invention and Smith. In Hurley, a cooking oven functions to provide convective and microwave heating (see abstract). The microwave heating is enabled by multiple microwave generating magnetrons (12 and 14) that are desirably arranged "at opposite ends of the cooking chamber" (see col. 5, lines 54-55) to direct microwave energy (15) to a food product.

Therefore, in regard to claims 133-136, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the cooking method of Smith to incorporate directing microwave energy at opposite sides of the cooking chamber as taught in Hurley as this location is expressly recognized in the art as desirable for directing microwave energy to a food product (see Hurley, col. 5, lines 47-55).

Response to Arguments

- 10. Applicant's arguments filed 2/11/10 have been carefully considered but they are not persuasive.
- 11. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the nozzles being positioned alongside sides of the oven cavity) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Art Unit: 3749

In this case, the claims only require that gas is directed "from left and right sides" of the oven "defined by left and right discharge plates". The examiner considers that the nozzles do not need to be mounted on the left and right sidewalls of the oven in order to guide gas flow across the cavity as claimed, from the general direction of the left and right oven sides.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah Suereth whose telephone number is (571)272-9061. The examiner can normally be reached on Mondays & Tuesdays 8:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven McAllister, can be reached (571) 272-6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Art Unit: 3749

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sarah Suereth/ Examiner, Art Unit 3749

/Steven B. McAllister/ Supervisory Patent Examiner, Art Unit 3749